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NEWS 4 May 12 Polymer links for the POLYLINK command completed in REGISTRY  
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fields  
NEWS 12 AUG 02 CPlus and CA patent records enhanced with European and Japan  
Patent Office Classifications  
NEWS 13 AUG 02 STN User Update to be held August 22 in conjunction with the  
228th ACS National Meeting  
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NEWS EXPRESS JULY 30 CURRENT WINDOWS VERSION IS V7.01, CURRENT  
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AND CURRENT DISCOVER FILE IS DATED 11 AUGUST 2004  
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NEWS WWW CAS World Wide Web Site (general information)

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FILE 'HOME' ENTERED AT 16:07:11 ON 14 AUG 2004

=> file medline, uspatful, dgene, embase, wpids, fsta, jicst, scisearch, biosis

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.21	0.21

FILE 'MEDLINE' ENTERED AT 16:07:56 ON 14 AUG 2004

FILE 'USPATFULL' ENTERED AT 16:07:56 ON 14 AUG 2004  
CA INDEXING COPYRIGHT (C) 2004 AMERICAN CHEMICAL SOCIETY (ACS)

FILE 'DGENE' ENTERED AT 16:07:56 ON 14 AUG 2004  
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FILE 'BIOSIS' ENTERED AT 16:07:56 ON 14 AUG 2004  
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=> s recombinant construct and expression  
L1 1613 RECOMBINANT CONSTRUCT AND EXPRESSION

=> s l1 and INGAP  
L2 10 L1 AND INGAP

=> d l2 ti abs ibib tot

L2 ANSWER 1 OF 10 USPATFULL on STN  
TI High level of **expression** of **ingap** in bacterial and  
eurytotic cells  
AB Removal of the nucleotide sequence encoding the signal peptide from the  
**INGAP** coding sequence allows cultured cells to express  
substantial amounts of **INGAP** activity. Previous attempts have  
provided only low yields of **INGAP**, possibly because the signal  
sequence of **INGAP** is toxic to the cells.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 1998:108255 USPATFULL

TITLE: High level of **expression** of **ingap**  
in bacterial and eurytotic cells

INVENTOR(S): Vinik, Aaron I., Norfolk, VA, United States  
Pittenger, Gary L., Virginia Beach, VA, United States

Rafaeloff-Phail, Ronit, Chesapeake, VA, United States  
Barlow, Scott W., Norfolk, VA, United States

PATENT ASSIGNEE(S): Eastern Virginia Medical School of the Medical College  
fo Hampton Roads, Norfolk, VA, United States (U.S.  
corporation)

NUMBER	KIND	DATE
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PATENT INFORMATION: US 5804421 19980908

APPLICATION INFO.: US 1997-909725 19970812 (8)

RELATED APPLN. INFO.: Continuation-in-part of Ser. No. US 1996-741096, filed

DOCUMENT TYPE: on 30 Oct 1996, now abandoned  
FILE SEGMENT: Utility  
PRIMARY EXAMINER: Granted  
ASSISTANT EXAMINER: Wax, Robert A.  
LEGAL REPRESENTATIVE: Longton, Enrique D.  
Banner & Witcoff, Ltd.  
NUMBER OF CLAIMS: 18  
EXEMPLARY CLAIM: 1  
NUMBER OF DRAWINGS: 2 Drawing Figure(s); 2 Drawing Page(s)  
LINE COUNT: 848  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L2 ANSWER 2 OF 10 DGENE COPYRIGHT 2004 THOMSON DERWENT on STN  
TI Expression of islet neogenesis-associated protein - from  
recombinant construct lacking signal peptide, useful in  
the treatment of diabetes  
AN AAW64790 Protein DGENE  
AB This sequence represents INGAP, an islet neogenesis-associated  
protein. This sequence is used in the construction of a  
**recombinant construct** having a coding sequence lacking  
a signal sequence and which is operably linked to transcription and  
translation initiation sites. This construct in a host cell is useful for  
producing recombinant mature INGAP, which is useful in the  
treatment of diabetes. High levels of INGAP expression  
can be achieved in bacterial and eukaryotic cells by removing the signal  
peptide as it is possibly toxic to cells.

ACCESSION NUMBER: AAW64790 Protein DGENE  
TITLE: Expression of islet neogenesis-associated protein -  
from recombinant construct lacking signal  
peptide, useful in the treatment of diabetes  
INVENTOR: Barlow S W; Pittenger G L; Rafaeloff-Phail R; Vinik A I  
PATENT ASSIGNEE: (EVIR-N) EASTERN VIRGINIA MEDICAL SCHOOL.  
PATENT INFO: US 5804421 A 19980908 14p  
APPLICATION INFO: US 1997-909725 19970812  
PRIORITY INFO: US 1997-909725 19970812  
US 1996-741096 19961030  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
OTHER SOURCE: 1998-505656 [43]  
DESCRIPTION: INGAP protein fragment.

L2 ANSWER 3 OF 10 DGENE COPYRIGHT 2004 THOMSON DERWENT on STN  
TI Expression of islet neogenesis-associated protein - from  
recombinant construct lacking signal peptide, useful in  
the treatment of diabetes  
AN AAW64789 Protein DGENE  
AB This cDNA sequence is the signal peptide of INGAP, an islet  
neogenesis-associated protein. This sequence is removed during the  
construction of a **recombinant construct** which has a  
having a coding sequence lacking a signal sequence and which is operably  
linked to transcription and translation initiation sites. This construct  
in a host cell is useful for producing recombinant mature INGAP  
, which is useful in the treatment of diabetes. High levels of  
INGAP expression can be achieved in bacterial and  
eukaryotic cells by removing the signal peptide as it is possibly toxic  
to cells.

ACCESSION NUMBER: AAW64789 Protein DGENE  
TITLE: Expression of islet neogenesis-associated protein -  
from recombinant construct lacking signal  
peptide, useful in the treatment of diabetes  
INVENTOR: Barlow S W; Pittenger G L; Rafaeloff-Phail R; Vinik A I  
PATENT ASSIGNEE: (EVIR-N) EASTERN VIRGINIA MEDICAL SCHOOL.  
PATENT INFO: US 5804421 A 19980908 14p  
APPLICATION INFO: US 1997-909725 19970812

PRIORITY INFO: US 1997-909725 19970812  
US 1996-741096 19961030  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
OTHER SOURCE: 1998-505656 [43]  
CROSS REFERENCES: N-PSDB: AAV46419  
DESCRIPTION: INGAP signal peptide.

L2 ANSWER 4 OF 10 DGENE COPYRIGHT 2004 THOMSON DERWENT on STN  
TI Expression of islet neogenesis-associated protein - from recombinant construct lacking signal peptide, useful in the treatment of diabetes  
AN AAV46422 cDNA DGENE  
AB This cDNA sequence is an amplified PCR product of the islet neogenesis-associated protein (INGAP) which is used in the construction of a recombinant construct having a coding sequence lacking a signal sequence and is operably linked to transcription and translation initiation sites. This construct in a host cell is useful for producing recombinant mature INGAP, which is useful in the treatment of diabetes. High levels of INGAP expression can be achieved in bacterial and eukaryotic cells by removing the signal peptide as it is possibly toxic to cells.

ACCESSION NUMBER: AAV46422 cDNA DGENE  
TITLE: Expression of islet neogenesis-associated protein - from recombinant construct lacking signal peptide, useful in the treatment of diabetes  
INVENTOR: Barlow S W; Pittenger G L; Rafaeloff-Phail R; Vinik A I  
PATENT ASSIGNEE: (EVIR-N) EASTERN VIRGINIA MEDICAL SCHOOL.  
PATENT INFO: US 5804421 A 19980908 14p  
APPLICATION INFO: US 1997-909725 19970812  
PRIORITY INFO: US 1997-909725 19970812  
US 1996-741096 19961030  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
OTHER SOURCE: 1998-505656 [43]  
DESCRIPTION: INGAP PCR product cDNA.

L2 ANSWER 5 OF 10 DGENE COPYRIGHT 2004 THOMSON DERWENT on STN  
TI Expression of islet neogenesis-associated protein - from recombinant construct lacking signal peptide, useful in the treatment of diabetes  
AN AAV46420 DNA DGENE  
AB AAV46420 and AAV46421 are PCR primers used in the construction of a recombinant islet neogenesis-associated protein (INGAP) which has a coding sequence lacking a signal sequence and which is operably linked to transcription and translation initiation sites. This construct in a host cell is useful for producing recombinant mature INGAP, which is useful in the treatment of diabetes. High levels of INGAP expression can be achieved in bacterial and eukaryotic cells by removing the signal peptide as it is possibly toxic to cells.

ACCESSION NUMBER: AAV46420 DNA DGENE  
TITLE: Expression of islet neogenesis-associated protein - from recombinant construct lacking signal peptide, useful in the treatment of diabetes  
INVENTOR: Barlow S W; Pittenger G L; Rafaeloff-Phail R; Vinik A I  
PATENT ASSIGNEE: (EVIR-N) EASTERN VIRGINIA MEDICAL SCHOOL.  
PATENT INFO: US 5804421 A 19980908 14p  
APPLICATION INFO: US 1997-909725 19970812  
PRIORITY INFO: US 1997-909725 19970812  
US 1996-741096 19961030  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
OTHER SOURCE: 1998-505656 [43]

DESCRIPTION: INGAP PCR primer #1.

L2 ANSWER 6 OF 10 DGENE COPYRIGHT 2004 THOMSON DERWENT on STN  
TI Expression of islet neogenesis-associated protein - from recombinant construct lacking signal peptide, useful in the treatment of diabetes  
AN AAV46419 cDNA DGENE  
AB This cDNA sequence is the 5'-end of the islet neogenesis-associated protein (INGAP). This sequence is used in the construction of a recombinant construct having a coding sequence lacking a signal sequence and which is operably linked to transcription and translation initiation sites. This construct in a host cell is useful for producing recombinant mature INGAP, which is useful in the treatment of diabetes. High levels of INGAP expression can be achieved in bacterial and eukaryotic cells by removing the signal peptide as it is possibly toxic to cells.

ACCESSION NUMBER: AAV46419 cDNA DGENE

TITLE: Expression of islet neogenesis-associated protein - from recombinant construct lacking signal peptide, useful in the treatment of diabetes

INVENTOR: Barlow S W; Pittenger G L; Rafaeloff-Phail R; Vinik A I

PATENT ASSIGNEE: (EVIR-N)EASTERN VIRGINIA MEDICAL SCHOOL.

PATENT INFO: US 5804421 A 19980908 14p

APPLICATION INFO: US 1997-909725 19970812

PRIORITY INFO: US 1997-909725 19970812  
US 1996-741096 19961030

DOCUMENT TYPE: Patent

LANGUAGE: English

OTHER SOURCE: 1998-505656 [43]

DESCRIPTION: INGAP 5'-end cDNA fragment.

L2 ANSWER 7 OF 10 DGENE COPYRIGHT 2004 THOMSON DERWENT on STN

TI Expression of islet neogenesis-associated protein - from recombinant construct lacking signal peptide, useful in the treatment of diabetes

AN AAV46421 DNA DGENE

AB AAV46420 and AAV46421 are PCR primers used in the construction of a recombinant islet neogenesis-associated protein (INGAP) which has a coding sequence lacking a signal sequence and which is operably linked to transcription and translation initiation sites. This construct in a host cell is useful for producing recombinant mature INGAP, which is useful in the treatment of diabetes. High levels of INGAP expression can be achieved in bacterial and eukaryotic cells by removing the signal peptide as it is possibly toxic to cells.

ACCESSION NUMBER: AAV46421 DNA DGENE

TITLE: Expression of islet neogenesis-associated protein - from recombinant construct lacking signal peptide, useful in the treatment of diabetes

INVENTOR: Barlow S W; Pittenger G L; Rafaeloff-Phail R; Vinik A I

PATENT ASSIGNEE: (EVIR-N)EASTERN VIRGINIA MEDICAL SCHOOL.

PATENT INFO: US 5804421 A 19980908 14p

APPLICATION INFO: US 1997-909725 19970812

PRIORITY INFO: US 1997-909725 19970812  
US 1996-741096 19961030

DOCUMENT TYPE: Patent

LANGUAGE: English

OTHER SOURCE: 1998-505656 [43]

DESCRIPTION: INGAP PCR primer #2.

L2 ANSWER 8 OF 10 WPIDS COPYRIGHT 2004 THOMSON DERWENT on STN

TI Expression of islet neogenesis-associated protein - from recombinant construct lacking signal peptide, useful in the treatment of diabetes.

AN 1998-505656 [43] WPIDS  
CR 1998-272209 [24]  
AB US 5804421 A UPAB: 19981028  
**Expression** of islet neogenesis-associated protein (**INGAP**) from a **recombinant construct** having a coding sequence lacking a signal sequence and which is operably linked to transcription and translation initiation sites. The coding sequence encodes amino acids 27-175 of a defined sequence of 175 amino acids given in the specification.

Also claimed is a host cell containing the above construct.

USE - The construct in a host cell is useful for producing recombinant mature **INGAP**, which is useful in the treatment of diabetes.

ADVANTAGE - High levels of **INGAP expression** can be achieved in bacterial and eukaryotic cells.

Dwg.0/2

ACCESSION NUMBER: 1998-505656 [43] WPIDS  
CROSS REFERENCE: 1998-272209 [24]  
DOC. NO. CPI: C1998-152585  
TITLE: **Expression** of islet neogenesis-associated protein - from **recombinant construct** lacking signal peptide, useful in the treatment of diabetes.  
DERWENT CLASS: B04 D16  
INVENTOR(S): BARLOW, S W; PITTINGER, G L; RAFAELOFF-PHAIL, R; VINIK, A I  
PATENT ASSIGNEE(S): (EVIR-N) EASTERN VIRGINIA MEDICAL SCHOOL  
COUNTRY COUNT: 1  
PATENT INFORMATION:

PATENT NO	KIND	DATE	WEEK	LA	PG
US 5804421	A	19980908 (199843)*			14

APPLICATION DETAILS:

PATENT NO	KIND	APPLICATION	DATE
US 5804421	A CIP of	US 1996-741096 US 1997-909725	19961030 19970812

PRIORITY APPLN. INFO: US 1997-909725 19970812; US  
1996-741096 19961030

L2 ANSWER 9 OF 10 WPIDS COPYRIGHT 2004 THOMSON DERWENT on STN  
TI Expressing high levels of **INGAP** using recombinant constructs comprising sequence encoding **INGAP** but with sequence encoding signal peptide removed, useful for **INGAP** production e.g. to treat diabetes.

AN 1998-272209 [24] WPIDS

CR 1998-505656 [43]

AB WO 9818913 A UPAB: 20040616

A **recombinant construct** for expressing **INGAP** activity comprises a nucleotide sequence encoding amino acids 27-175 of **INGAP** operably linked to a transcription initiation site and a translational initiation site, but omitting a second nucleotide sequence encoding a signal peptide immediately 5' of the first sequence. Also claimed are host cells comprising the **recombinant construct**.

USE - The construct can be used to produce biologically active **INGAP**, by culturing the transformed host cells. **INGAP** is a protein involved in the regeneration of cells of the pancreatic islets of Langerhans. These islets are the only organs of insulin

production by beta cells in the body, but have limited capacity for regeneration, which predisposes mammals to develop diabetes mellitus. A pancreatic extract called Ilotropin can induce beta cell regeneration and reverse diabetes, and within this extract **INGAP** is known to be responsible for stimulating islet cell regeneration. The complete **INGAP** nucleotide sequence is known, but expression of the protein has previously been limited. The **INGAP** produced is useful in treatments to regenerate the islets of Langerhans to prevent or ameliorate the symptoms of diabetes mellitus.

**ADVANTAGE** - Removal of the nucleotide sequence encoding the signal peptide from the **INGAP** coding sequence allows bacterial cells to express substantial amounts of **INGAP** activity; previous methods have produced only low yields of **INGAP**, possibly because the **INGAP** signal sequence is toxic to bacteria. In the constructs tested, nucleotides 1-16 were also deleted, possibly also contributing to the increased expression observed.

Dwg.0/2

ACCESSION NUMBER: 1998-272209 [24] WPIDS  
 CROSS REFERENCE: 1998-505656 [43]  
 DOC. NO. CPI: C1998-085050  
 TITLE: Expressing high levels of **INGAP** using recombinant constructs - comprising sequence encoding **INGAP** but with sequence encoding signal peptide removed, useful for **INGAP** production e.g. to treat diabetes.  
 DERWENT CLASS: B04 D16  
 INVENTOR(S): BARLOW, S W; PITTINGER, G I; RAFAELOFF, R; VINIK, A I  
 PATENT ASSIGNEE(S): (EVIR-N) EAST VIRGINIA MEDICAL SCHOOL MEDICAL COL;  
                       (EVIR-N) EASTERN VIRGINIA MEDICAL SCHOOL  
 COUNTRY COUNT: 80  
 PATENT INFORMATION:

PATENT NO	KIND	DATE	WEEK	LA	PG
WO 9818913	A1	19980507 (199824)*	EN	22	
RW: AT BE CH DE DK EA ES FI FR GB GH GR IE IT KE LS LU MC MW NL OA PT SD SE SZ UG ZW					
W: AL AM AT AU AZ BA BB BG BR BY CA CH CN CU CZ DE DK EE ES FI GB GE GH HU ID IL IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT UA UG US UZ VN YU ZW					
AU 9750007	A	19980522 (199840)			
EP 1007647	A1	20000614 (200033)	EN		
R: AL AT BE CH DE DK ES FI FR GB GR IE IT LI LT LU LV MC NL PT RO SE SI					
AU 727237	B	20001207 (200103)			
JP 2001502916	W	20010306 (200116)		22	
MX 9904079	A1	20000501 (200129)			
AU 2001024864	A	20010524 (200139) #			
AU 758762	B	20030327 (200330) #			
EP 1007647	B1	20040506 (200430)	EN		
R: AL AT BE CH DE DK ES FI FR GB GR IE IT LI LT LU LV MC NL PT RO SE SI					
DE 69729010	E	20040609 (200438)			

#### APPLICATION DETAILS:

PATENT NO	KIND	APPLICATION	DATE
WO 9818913	A1	WO 1997-US19415	19971030
AU 9750007	A	AU 1997-50007	19971030
EP 1007647	A1	EP 1997-912942	19971030
		WO 1997-US19415	19971030
AU 727237	B	AU 1997-50007	19971030

JP 2001502916	W	WO 1997-US19415	19971030
MX 9904079	A1	JP 1998-520665	19971030
AU 2001024864	A Div ex	MX 1999-4079	19990430
AU 758762	B Div ex	AU 1997-50007	19971030
		AU 2001-24864	20010305
EP 1007647	B1	AU 1997-50007	19971030
		EP 1997-912942	20010305
DE 69729010	E	WO 1997-US19415	19971030
		DE 1997-629010	19971030
		EP 1997-912942	19971030
		WO 1997-US19415	19971030

FILING DETAILS:

PATENT NO	KIND	PATENT NO
AU 9750007	A Based on	WO 9818913
EP 1007647	A1 Based on	WO 9818913
AU 727237	B Previous Publ.	AU 9750007
	Based on	WO 9818913
JP 2001502916	W Based on	WO 9818913
AU 2001024864	A Div ex	AU 727237
AU 758762	B Previous Publ.	AU 2001024864
	Div ex	AU 727237
EP 1007647	B1 Based on	WO 9818913
DE 69729010	E Based on	EP 1007647
	Based on	WO 9818913

PRIORITY APPLN. INFO: US 1996-741096 19961030; AU  
2001-24864 20010305

L2 ANSWER 10 OF 10 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN  
TI High level of **expression** of **INGAP** in bacterial and  
eukaryotic cells.

ACCESSION NUMBER: 2002:124017 BIOSIS  
 DOCUMENT NUMBER: PREV200200124017  
 TITLE: High level of **expression** of **INGAP** in  
bacterial and eukaryotic cells.  
 AUTHOR(S): Vinik, A. I [Inventor]; Pittenger, G. L. [Inventor];  
Rafaeloff-Phail, R. [Inventor]; Barlow, S. W. [Inventor]  
 CORPORATE SOURCE: Norfolk, Va., USA  
 ASSIGNEE: EASTERN VIRGINIA MEDICAL SCHOOL OF THE MEDICAL  
COLLEGE OF HAMPTON ROADS  
 PATENT INFORMATION: US 5804421 Sept. 8, 1998  
 SOURCE: Official Gazette of the United States Patent and Trademark  
Office Patents, (Sept. 8, 1998) Vol. 1214, No. 2, pp. 1748.  
print.  
 CODEN: OGUPE7. ISSN: 0098-1133.  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 ENTRY DATE: Entered STN: 30 Jan 2002  
 Last Updated on STN: 26 Feb 2002

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E1      9      VINIK R/AU
E2      1      VINIK V V/AU
E3      0 --> VINIK, A/AU
E4      1      VINIKAINEN J/AU
E5      1      VINIKAITIS G P/AU
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E7      5      VINIKER D/AU
E8     32      VINIKER D A/AU
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E9 2 VINITKHINA L N/AU  
E10 7 VINITKKA L/AU  
E11 2 VINITKKA LASSE/AU  
E12 2 VINITKMAN V/AU

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E1 1 PITTINGER VICKI M/AU  
E2 2 PITTINGER W A/AU  
E3 0 --> PITTINGER, G/AU  
E4 1 PITTENS J J/AU  
E5 2 PITTENS K H/AU  
E6 1 PITTEOLOUD R/AU  
E7 3 PITTER/AU  
E8 5 PITTER A/AU  
E9 7 PITTER A F/AU  
E10 9 PITTER A F V/AU  
E11 1 PITTER ANDREAS/AU  
E12 3 PITTER C/AU

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E3 0 --> RAFAELOFF, R/AU  
E4 7 RAFAELOFFPHAIL R/AU  
E5 2 RAFAELOV R/AU  
E6 1 RAFAELOVICH L/AU  
E7 4 RAFAELOVSKY M/AU  
E8 1 RAFAELPEREZ M A/AU  
E9 1 RAFAELS RAYMOND J/AU  
E10 1 RAFAELSE L/AU  
E11 13 RAFAELSE OJ/AU  
E12 1 RAFAELSEN E/AU

=> e barlow, s/au  
E1 3 BARLOW YVONNE/AU  
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E3 0 --> BARLOW, S/AU  
E4 5 BARLOWATZ MEIMON G/AU  
E5 1 BARLOWATZMEIMON G/AU  
E6 3 BARLOWE B/AU  
E7 123 BARLOWE C/AU  
E8 48 BARLOWE C K/AU  
E9 56 BARLOWE CHARLES/AU  
E10 3 BARLOWE CHARLES K/AU  
E11 1 BARLOWE G/AU  
E12 1 BARLOWE J/AU

=> s construct and protein expression  
3 FILES SEARCHED...  
L3 23779 CONSTRUCT AND PROTEIN EXPRESSION

=> l3 and INGAP  
L3 IS NOT A RECOGNIZED COMMAND  
The previous command name entered was not recognized by the system.  
For a list of commands available to you in the current file, enter  
"HELP COMMANDS" at an arrow prompt (>).

=> s l3 and INGAP  
L4 7 L3 AND INGAP

=> d 14 ti abs ibib tot

L4 ANSWER 1 OF 7 USPATFULL on STN  
TI Treatment of patients with multiple sclerosis based on gene expression

AB changes in central nervous system tissues  
The present invention identifies a number of gene markers whose expression is altered in multiple sclerosis (MS). These markers can be used to diagnose or predict MS in subjects, and can be used in the monitoring of therapies. In addition, these genes identify therapeutic targets, the modification of which may prevent MS development or progression.

ACCESSION NUMBER: 2004:202937 USPATFULL  
TITLE: Treatment of patients with multiple sclerosis based on gene expression changes in central nervous system tissues  
INVENTOR(S): Dangond, Fernando, Newton, MA, UNITED STATES  
Hwang, Daehee, Seattle, WA, UNITED STATES  
Gullans, Steven R., Natick, MA, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2004156826	A1	20040812
APPLICATION INFO.:	US 2003-670766	A1	20030925 (10)

	NUMBER	DATE
PRIORITY INFORMATION:	US 2002-414219P	20020927 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	FULBRIGHT & JAWORSKI L.L.P., SUITE 2400, 600 CONGRESS AVENUE, AUSTIN, TX, 78701-3271	
NUMBER OF CLAIMS:	56	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	2 Drawing Page(s)	
LINE COUNT:	7243	

L4 ANSWER 2 OF 7 USPATFULL on STN  
TI Modified transferrin fusion proteins  
AB Modified fusion proteins of transferrin and therapeutic proteins or peptides with increased serum half-life or serum stability are disclosed. Preferred fusion proteins include those modified so that the transferrin moiety exhibits no or reduced glycosylation, binding to iron and/or binding to the transferrin receptor.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.  
ACCESSION NUMBER: 2004:31195 USPATFULL  
TITLE: Modified transferrin fusion proteins  
INVENTOR(S): Prior, Christopher P., Philadelphia, PA, UNITED STATES  
PATENT ASSIGNEE(S): BioRexis Pharmaceutical Corporation (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2004023334	A1	20040205
APPLICATION INFO.:	US 2002-231494	A1	20020830 (10)

	NUMBER	DATE
PRIORITY INFORMATION:	US 2001-315745P	20010830 (60)
	US 2001-334059P	20011130 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	MORGAN LEWIS & BOCKIUS LLP, 1111 PENNSYLVANIA AVENUE NW, WASHINGTON, DC, 20004	
NUMBER OF CLAIMS:	56	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	14 Drawing Page(s)	
LINE COUNT:	15780	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L4 ANSWER 3 OF 7 USPATFULL on STN

TI Full-length serine protein kinase in brain and pancreas  
AB The present invention relates to all facets of novel polynucleotides, the polypeptides they encode, antibodies and specific binding partners thereto, and their applications to research, diagnosis, drug discovery, therapy, clinical medicine, forensic science, pathology, and medicine, etc. The polynucleotides are expressed in brain and pancreas and are therefore useful in variety of ways, including, but not limited to, as molecular markers, as drug targets, and for detecting, diagnosing, staging, monitoring, prognosticating, preventing or treating, determining predisposition to, etc., diseases and conditions, especially relating to brain and pancreas.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2003:140430 USPATFULL  
TITLE: Full-length serine protein kinase in brain and pancreas  
INVENTOR(S): Shu, Youmin, Potomac, MD, UNITED STATES  
Fan, Wufang, Germantown, MD, UNITED STATES  
Kovacs, Karl F., Rockville, MD, UNITED STATES  
Zidanic, Michael, Derwood, MD, UNITED STATES  
Jay, Gilbert, North Bethesda, MD, UNITED STATES

NUMBER KIND DATE

-----  
PATENT INFORMATION: US 2003096271 A1 20030522  
APPLICATION INFO.: US 2002-195071 A1 20020715 (10)  
RELATED APPLN. INFO.: Continuation of Ser. No. US 2001-930181, filed on 16 Aug 2001, GRANTED, Pat. No. US 6455292  
DOCUMENT TYPE: Utility  
FILE SEGMENT: APPLICATION  
LEGAL REPRESENTATIVE: ORIGENE TECHNOLOGIES, INCORPORATED, 6 TAFT COURT, SUITE 100, ROCKVILLE, MD, 20850  
NUMBER OF CLAIMS: 21  
EXEMPLARY CLAIM: 1  
NUMBER OF DRAWINGS: 3 Drawing Page(s)  
LINE COUNT: 2764

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L4 ANSWER 4 OF 7 USPATFULL on STN

TI Full-length serine protein kinase in brain and pancreas  
AB The present invention relates to all facets of novel polynucleotides, the polypeptides they encode, antibodies and specific binding partners thereto, and their applications to research, diagnosis, drug discovery, therapy, clinical medicine, forensic science, pathology, and medicine, etc. The polynucleotides are expressed in brain and pancreas and are therefore useful in variety of ways, including, but not limited to, as molecular markers, as drug targets, and for detecting, diagnosing, staging, monitoring, prognosticating, preventing or treating, determining predisposition to, etc., diseases and conditions, especially relating to brain and pancreas.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2003:133951 USPATFULL  
TITLE: Full-length serine protein kinase in brain and pancreas  
INVENTOR(S): Shu, Youmin, Potomac, MD, UNITED STATES  
Fan, Wufang, Germantown, MD, UNITED STATES  
Kovacs, Karl F., Rockville, MD, UNITED STATES  
Zidanic, Michael, Derwood, MD, UNITED STATES  
Jay, Gilbert, North Bethesda, MD, UNITED STATES

NUMBER KIND DATE

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PATENT INFORMATION: US 2003092036 A1 20030515  
APPLICATION INFO.: US 2002-195072 A1 20020715 (10)  
RELATED APPLN. INFO.: Continuation of Ser. No. US 2001-930181, filed on 16 Aug 2001, GRANTED, Pat. No. US 6455292  
DOCUMENT TYPE: Utility  
FILE SEGMENT: APPLICATION  
LEGAL REPRESENTATIVE: ORIGENE TECHNOLOGIES, INCORPORATED, 6 TAFT COURT, SUITE 100, ROCKVILLE, MD, 20850  
NUMBER OF CLAIMS: 21  
EXEMPLARY CLAIM: 1  
NUMBER OF DRAWINGS: 3 Drawing Page(s)  
LINE COUNT: 2773  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L4 ANSWER 5 OF 7 USPATFULL on STN

TI Full-length serine protein kinase in brain and pancreas  
AB The present invention relates to all facets of novel polynucleotides, the polypeptides they encode, antibodies and specific binding partners thereto, and their applications to research, diagnosis, drug discovery, therapy, clinical medicine, forensic science, pathology, and medicine. The polynucleotides are expressed in brain and pancreas and are therefore useful in variety of ways, including, but not limited to, as molecular markers, as drug targets, and for detecting, diagnosing, staging, monitoring, prognosticating, preventing or treating, determining predisposition to diseases and conditions, especially relating to brain and pancreas.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2002:246571 USPATFULL  
TITLE: Full-length serine protein kinase in brain and pancreas  
INVENTOR(S): Shu, Youmin, Potomac, MD, United States  
Fan, Wufang, Germantown, MD, United States  
Kovacs, Karl F., Rockville, MD, United States  
Zidanic, Michael, Derwood, MD, United States  
Jay, Gilbert, North Bethesda, MD, United States  
PATENT ASSIGNEE(S): OriGene Technologies, Inc, Rockville, MD, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6455292	B1	20020924
APPLICATION INFO.:	US 2001-930181		20010816 (9)
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	GRANTED		
PRIMARY EXAMINER:	Murthy, Ponnathapuachuta		
ASSISTANT EXAMINER:	Ramirez, Delia		
LEGAL REPRESENTATIVE:	Lebovitz, Richard M.		
NUMBER OF CLAIMS:	6		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	3 Drawing Figure(s); 3 Drawing Page(s)		
LINE COUNT:	2617		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L4 ANSWER 6 OF 7 USPATFULL on STN

TI INGAP displacement assays  
AB An antibody is provided which specifically recognizes and binds to INGAP protein. The antibody is used in competitive binding assays for quantitation of INGAP in biological samples. The assay can be performed on a solid support or in a suspension.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2002:235435 USPATFULL  
TITLE: INGAP displacement assays  
INVENTOR(S): Vinik, Aaron I., Norfolk, VA, UNITED STATES

PATENT ASSIGNEE(S) : Taylor-Fishwick, David A., Norfolk, VA, UNITED STATES  
GMP Endotherapeutics, Inc., Fort Lauderdale, FL

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2002127624	A1	20020912
APPLICATION INFO.:	US 2002-36418	A1	20020107 (10)

	NUMBER	DATE
PRIORITY INFORMATION:	US 2001-260210P	20010109 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	BANNER & WITCOFF, 1001 G STREET N W, SUITE 1100, WASHINGTON, DC, 20001	
NUMBER OF CLAIMS:	46	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	6 Drawing Page(s)	
LINE COUNT:	537	
CAS INDEXING IS AVAILABLE FOR THIS PATENT.		

L4 ANSWER 7 OF 7 USPATFULL on STN  
TI High level of expression of **ingap** in bacterial and euraryotic cells  
AB Removal of the nucleotide sequence encoding the signal peptide from the **INGAP** coding sequence allows cultured cells to express substantial amounts of **INGAP** activity. Previous attempts have provided only low yields of **INGAP**, possibly because the signal sequence of **INGAP** is toxic to the cells.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.  
ACCESSION NUMBER: 1998:108255 USPATFULL  
TITLE: High level of expression of **ingap** in bacterial and euraryotic cells  
INVENTOR(S): Vinik, Aaron I., Norfolk, VA, United States  
Pittenger, Gary L., Virginia Beach, VA, United States  
Rafaeloff-Phail, Ronit, Chesapeake, VA, United States  
Barlow, Scott W., Norfolk, VA, United States  
PATENT ASSIGNEE(S): Eastern Virginia Medical School of the Medical College fo Hampton Roads, Norfolk, VA, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5804421		19980908
APPLICATION INFO.:	US 1997-909725		19970812 (8)
RELATED APPLN. INFO.:	Continuation-in-part of Ser. No. US 1996-741096, filed on 30 Oct 1996, now abandoned		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Wax, Robert A.		
ASSISTANT EXAMINER:	Longton, Enrique D.		
LEGAL REPRESENTATIVE:	Banner & Witcoff, Ltd.		
NUMBER OF CLAIMS:	18		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	2 Drawing Figure(s); 2 Drawing Page(s)		
LINE COUNT:	848		
CAS INDEXING IS AVAILABLE FOR THIS PATENT.			

## Refine Search

### Search Results -

Terms	Documents
L8 and L7	21

**Database:**  US Pre-Grant Publication Full-Text Database  
 US Patents Full-Text Database  
 US OCR Full-Text Database  
 EPO Abstracts Database  
 JPO Abstracts Database  
 Derwent World Patents Index  
 IBM Technical Disclosure Bulletins

**Search:**

### Search History

DATE: Saturday, August 14, 2004 [Printable Copy](#) [Create Case](#)

<u>Set Name</u>	<u>Query</u>	<u>Hit Count</u>	<u>Set Name</u>
<i>side by side</i>			
<u>DB</u> =USPT; <u>PLUR</u> =YES; <u>OP</u> =OR			
<u>L9</u>	L8 and l7	21	<u>L9</u>
<u>L8</u>	rous sarcoma virus long terminal repeat	1655060	<u>L8</u>
<u>L7</u>	l2 not l6	27	<u>L7</u>
<u>L6</u>	signal sequence	1261922	<u>L6</u>
<u>L5</u>	l2 and signal sequence	547614	<u>L5</u>
<u>L4</u>	pettenger.in.	0	<u>L4</u>
<u>L3</u>	VINIK.in.	4	<u>L3</u>
<u>L2</u>	L1 and INGAP	61	<u>L2</u>
<u>L1</u>	construct with protein expression	172778	<u>L1</u>

END OF SEARCH HISTORY

## Hit List

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<a href="#">Generate OACs</a>				

**Search Results - Record(s) 1 through 10 of 21 returned.**

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1. Document ID: US 6667498 B2

L9: Entry 1 of 21

File: USPT

Dec 23, 2003

US-PAT-NO: 6667498

DOCUMENT-IDENTIFIER: US 6667498 B2

TITLE: Nitride semiconductor stack and its semiconductor device

DATE-ISSUED: December 23, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Makimoto; Toshiki	Kanagawa			JP
Kumakura; Kazuhide	Kanagawa			JP
Kobayashi; Naoki	Kanagawa			JP

US-CL-CURRENT: [257/183](#); [257/197](#), [257/E21.387](#), [257/E29.189](#), [257/E33.028](#), [438/312](#)

<a href="#">Full</a>	<a href="#">Title</a>	<a href="#">Citation</a>	<a href="#">Front</a>	<a href="#">Review</a>	<a href="#">Classification</a>	<a href="#">Date</a>	<a href="#">Reference</a>	<a href="#">Abstracts</a>	<a href="#">Attachments</a>	<a href="#">Claims</a>	<a href="#">RICO</a>	<a href="#">Drawn D.</a>
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2. Document ID: US 6611008 B2

L9: Entry 2 of 21

File: USPT

Aug 26, 2003

US-PAT-NO: 6611008

DOCUMENT-IDENTIFIER: US 6611008 B2

TITLE: Heterojunction bipolar transistor capable of restraining the conductivity modulation of the ballast layer

DATE-ISSUED: August 26, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Twynam; John Kevin	Tenri			JP
Ishimaru; Yoshiteru	Tenri			JP

US-CL-CURRENT: [257/197](#); [257/198](#), [257/201](#), [438/235](#), [438/309](#), [438/312](#)

<a href="#">Full</a>	<a href="#">Title</a>	<a href="#">Citation</a>	<a href="#">Front</a>	<a href="#">Review</a>	<a href="#">Classification</a>	<a href="#">Date</a>	<a href="#">Reference</a>	<a href="#">Abstracts</a>	<a href="#">Attachments</a>	<a href="#">Claims</a>	<a href="#">RICO</a>	<a href="#">Drawn D.</a>
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3. Document ID: US 6590917 B2

L9: Entry 3 of 21

File: USPT

Jul 8, 2003

US-PAT-NO: 6590917

DOCUMENT-IDENTIFIER: US 6590917 B2

TITLE: Surface emitting laser and surface emitting laser array

DATE-ISSUED: July 8, 2003

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Nakayama; Hideo	Nakai-machi			JP
Sakamoto; Akira	Nakai-machi			JP
Nakamura; Takeshi	Nakai-machi			JP
Koyama; Fumio	Yokohama			JP

US-CL-CURRENT: 372/45[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequence](#) | [Attachments](#) | [Claims](#) | [KMD](#) | [Drawn D](#) 4. Document ID: US 6576503 B2

L9: Entry 4 of 21

File: USPT

Jun 10, 2003

US-PAT-NO: 6576503

DOCUMENT-IDENTIFIER: US 6576503 B2

TITLE: Laser diodes and manufacturing methods

DATE-ISSUED: June 10, 2003

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Kikawa; Takeshi	Kodaira			JP
Goto; Shigeo	Tokorozawa			JP

US-CL-CURRENT: 438/152; 438/158, 438/166, 438/184[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequence](#) | [Attachments](#) | [Claims](#) | [KMD](#) | [Drawn D](#) 5. Document ID: US 6534251 B1

L9: Entry 5 of 21

File: USPT

Mar 18, 2003

US-PAT-NO: 6534251

DOCUMENT-IDENTIFIER: US 6534251 B1

TITLE: Silver salt photothermographic dry imaging material and image recording method thereof

DATE-ISSUED: March 18, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Maeda; Keiko	Hino			JP
Shima; Tetsuo	Hino			JP

US-CL-CURRENT: 430/350; 430/531, 430/619, 430/620, 430/945

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequencies](#) | [Attachments](#) | [Claims](#) | [KMD](#) | [Drawn D](#)

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6. Document ID: US 6355947 B1

L9: Entry 6 of 21

File: USPT

Mar 12, 2002

US-PAT-NO: 6355947

DOCUMENT-IDENTIFIER: US 6355947 B1

TITLE: Heterojunction bipolar transistor with band gap graded emitter

DATE-ISSUED: March 12, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Niwa; Takaki	Tokyo			JP

US-CL-CURRENT: 257/197; 257/198, 257/199, 257/200, 257/201

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequencies](#) | [Attachments](#) | [Claims](#) | [KMD](#) | [Drawn D](#)

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7. Document ID: US 6355874 B1

L9: Entry 7 of 21

File: USPT

Mar 12, 2002

US-PAT-NO: 6355874

DOCUMENT-IDENTIFIER: US 6355874 B1

TITLE: Semiconductor device and solar cell

DATE-ISSUED: March 12, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Yagi; Shigeru	Minamiashigara			JP
Suzuki; Seiji	Minamiashigara			JP

US-CL-CURRENT: 136/252; 136/256, 136/258, 136/261, 136/262, 136/265, 257/189,

257/434, 257/461, 257/52, 257/66, 257/76

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KIND](#) | [Drawn Ds](#)

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8. Document ID: US 6195373 B1

L9: Entry 8 of 21

File: USPT

Feb 27, 2001

US-PAT-NO: 6195373

DOCUMENT-IDENTIFIER: US 6195373 B1

TITLE: Index optical waveguide semiconductor laser

DATE-ISSUED: February 27, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Fukunaga; Toshiaki	Kanagawa-ken			JP

US-CL-CURRENT: 372/45; 372/46

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KIND](#) | [Drawn Ds](#)

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9. Document ID: US 6136425 A

L9: Entry 9 of 21

File: USPT

Oct 24, 2000

US-PAT-NO: 6136425

DOCUMENT-IDENTIFIER: US 6136425 A

TITLE: Support for printing material, printing material employing the same and manufacturing method thereof

DATE-ISSUED: October 24, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE ZIP CODE	COUNTRY
Akiyama, deceased; Takeo	late of Tokyo		JP
Akiyama, legal representative; by Yasuo	Minami-Koma-gun		JP

US-CL-CURRENT: 428/314.2; 428/317.5, 428/317.7, 428/317.9

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KIND](#) | [Drawn Ds](#)

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10. Document ID: US 5859864 A

L9: Entry 10 of 21

File: USPT

Jan 12, 1999

US-PAT-NO: 5859864

DOCUMENT-IDENTIFIER: US 5859864 A

TITLE: Extended wavelength lasers having a restricted growth surface and graded lattice mismatch

DATE-ISSUED: January 12, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Jewell; Jack L.	Boulder	CO		

US-CL-CURRENT: 372/45; 257/190, 257/191

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Searches](#) | [Attachments](#) | [Claims](#) | [RWOIC](#) | [Drawn D](#)

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**Search Results - Record(s) 1 through 10 of 27 returned.**

1. Document ID: US 6667498 B2

L7: Entry 1 of 27

File: USPT

Dec 23, 2003

US-PAT-NO: 6667498

DOCUMENT-IDENTIFIER: US 6667498 B2

TITLE: Nitride semiconductor stack and its semiconductor device

DATE-ISSUED: December 23, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Makimoto; Toshiki	Kanagawa			JP
Kumakura; Kazuhide	Kanagawa			JP
Kobayashi; Naoki	Kanagawa			JP

US-CL-CURRENT: 257/183; 257/197, 257/E21.387, 257/E29.189, 257/E33.028, 438/312

<a href="#">Full</a>	<a href="#">Title</a>	<a href="#">Citation</a>	<a href="#">Front</a>	<a href="#">Review</a>	<a href="#">Classification</a>	<a href="#">Date</a>	<a href="#">Reference</a>	<a href="#">Searched</a>	<a href="#">Indexed</a>	<a href="#">Claims</a>	<a href="#">KOMC</a>	<a href="#">Drawn</a>
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2. Document ID: US 6636541 B1

L7: Entry 2 of 27

File: USPT

Oct 21, 2003

US-PAT-NO: 6636541

DOCUMENT-IDENTIFIER: US 6636541 B1

TITLE: Semiconductor laser device

DATE-ISSUED: October 21, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Nakayama; Hisashi	Osaka			JP
Kito; Masahiro	Osaka			JP
Ishino; Masato	Osaka			JP
Matsui; Yasushi	Osaka			JP

US-CL-CURRENT: 372/45; 372/43, 372/46, 372/50

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Searches](#) | [Miscellaneous](#) | [Claims](#) | [KMD](#) | [Drawn](#)

3. Document ID: US 6611008 B2

L7: Entry 3 of 27

File: USPT

Aug 26, 2003

US-PAT-NO: 6611008

DOCUMENT-IDENTIFIER: US 6611008 B2

TITLE: Heterojunction bipolar transistor capable of restraining the conductivity modulation of the ballast layer

DATE-ISSUED: August 26, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Twynam; John Kevin	Tenri			JP
Ishimaru; Yoshiteru	Tenri			JP

US-CL-CURRENT: 257/197; 257/198, 257/201, 438/235, 438/309, 438/312

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Searches](#) | [Miscellaneous](#) | [Claims](#) | [KMD](#) | [Drawn](#)

4. Document ID: US 6590917 B2

L7: Entry 4 of 27

File: USPT

Jul 8, 2003

US-PAT-NO: 6590917

DOCUMENT-IDENTIFIER: US 6590917 B2

TITLE: Surface emitting laser and surface emitting laser array

DATE-ISSUED: July 8, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Nakayama; Hideo	Nakai-machi			JP
Sakamoto; Akira	Nakai-machi			JP
Nakamura; Takeshi	Nakai-machi			JP
Koyama; Fumio	Yokohama			JP

US-CL-CURRENT: 372/45

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Searches](#) | [Miscellaneous](#) | [Claims](#) | [KMD](#) | [Drawn](#)

5. Document ID: US 6576503 B2

L7: Entry 5 of 27

File: USPT

Jun 10, 2003

US-PAT-NO: 6576503

DOCUMENT-IDENTIFIER: US 6576503 B2

TITLE: Laser diodes and manufacturing methods

DATE-ISSUED: June 10, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Kikawa; Takeshi	Kodaira			JP
Goto; Shigeo	Tokorozawa			JP

US-CL-CURRENT: 438/152; 438/158, 438/166, 438/184

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Searches](#) | [Attachments](#) | [Claims](#) | [RMD](#) | [Drawn](#)

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□ 6. Document ID: US 6534251 B1

L7: Entry 6 of 27

File: USPT

Mar 18, 2003

US-PAT-NO: 6534251

DOCUMENT-IDENTIFIER: US 6534251 B1

TITLE: Silver salt photothermographic dry imaging material and image recording method thereof

DATE-ISSUED: March 18, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Maeda; Keiko	Hino			JP
Shima; Tetsuo	Hino			JP

US-CL-CURRENT: 430/350; 430/531, 430/619, 430/620, 430/945

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Searches](#) | [Attachments](#) | [Claims](#) | [RMD](#) | [Drawn](#)

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□ 7. Document ID: US 6355947 B1

L7: Entry 7 of 27

File: USPT

Mar 12, 2002

US-PAT-NO: 6355947

DOCUMENT-IDENTIFIER: US 6355947 B1

TITLE: Heterojunction bipolar transistor with band gap graded emitter

DATE-ISSUED: March 12, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
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Niwa; Takaki

Tokyo

JP

US-CL-CURRENT: 257/197, 257/198, 257/199, 257/200, 257/201[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Search](#) | [Advanced Search](#) | [Claims](#) | [KIMOC](#) | [Drawn D](#)**□ 8. Document ID: US 6355874 B1**

L7: Entry 8 of 27

File: USPT

Mar 12, 2002

US-PAT-NO: 6355874

DOCUMENT-IDENTIFIER: US 6355874 B1

TITLE: Semiconductor device and solar cell

DATE-ISSUED: March 12, 2002

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Yagi; Shigeru	Minamiashigara			JP
Suzuki; Seiji	Minamiashigara			JP

US-CL-CURRENT: 136/252, 136/256, 136/258, 136/261, 136/262, 136/265, 257/189,  
257/434, 257/461, 257/52, 257/66, 257/76[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Search](#) | [Advanced Search](#) | [Claims](#) | [KIMOC](#) | [Drawn D](#)**□ 9. Document ID: US 6195373 B1**

L7: Entry 9 of 27

File: USPT

Feb 27, 2001

US-PAT-NO: 6195373

DOCUMENT-IDENTIFIER: US 6195373 B1

TITLE: Index optical waveguide semiconductor laser

DATE-ISSUED: February 27, 2001

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Fukunaga; Toshiaki	Kanagawa-ken			JP

US-CL-CURRENT: 372/45; 372/46[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Search](#) | [Advanced Search](#) | [Claims](#) | [KIMOC](#) | [Drawn D](#)**□ 10. Document ID: US 6136425 A**

L7: Entry 10 of 27

File: USPT

Oct 24, 2000

US-PAT-NO: 6136425

DOCUMENT-IDENTIFIER: US 6136425 A

TITLE: Support for printing material, printing material employing the same and manufacturing method thereof

DATE-ISSUED: October 24, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE ZIP CODE	COUNTRY
Akiyama, deceased; Takeo	late of Tokyo		JP
Akiyama, legal representative; by Yasuo	Minami-Koma-gun		JP

US-CL-CURRENT: 428/314.2; 428/317.5, 428/317.7, 428/317.9

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**Search Results - Record(s) 1 through 10 of 61 returned.**

1. Document ID: US 6768097 B1

L2: Entry 1 of 61

File: USPT

Jul 27, 2004

US-PAT-NO: 6768097

DOCUMENT-IDENTIFIER: US 6768097 B1

TITLE: Optoelectronic device with wavelength filtering by cavity coupling

DATE-ISSUED: July 27, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Viktorovitch; Pierre	Tassin la Demi-Lune			FR
Garrigues; Michel	La Tour de Salvagny			FR
Leclercq; Jean-Louis	Morance			FR

US-CL-CURRENT: 250/226; 250/227.28

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2. Document ID: US 6743568 B2

L2: Entry 2 of 61

File: USPT

Jun 1, 2004

US-PAT-NO: 6743568

DOCUMENT-IDENTIFIER: US 6743568 B2

TITLE: Cyanine dyes

DATE-ISSUED: June 1, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Hohsaka; Ayako	Okayama			JP
Matsuura; Dai	Okayama			JP
Kawata; Toshio	Okayama			JP
Yasui; Shigeo	Okayama			JP

US-CL-CURRENT: 430/270.19; 430/270.21, 430/945

<a href="#">Full</a>	<a href="#">Title</a>	<a href="#">Citation</a>	<a href="#">Front</a>	<a href="#">Review</a>	<a href="#">Classification</a>	<a href="#">Date</a>	<a href="#">Reference</a>	<a href="#">Sequence</a>	<a href="#">Attachments</a>	<a href="#">Claims</a>	<a href="#">RIMIC</a>	<a href="#">Drawn</a>
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 3. Document ID: US 6667498 B2

L2: Entry 3 of 61

File: USPT

Dec 23, 2003

US-PAT-NO: 6667498

DOCUMENT-IDENTIFIER: US 6667498 B2

TITLE: Nitride semiconductor stack and its semiconductor device

DATE-ISSUED: December 23, 2003

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Makimoto; Toshiki	Kanagawa			JP
Kumakura; Kazuhide	Kanagawa			JP
Kobayashi; Naoki	Kanagawa			JP

US-CL-CURRENT: 257/183; 257/197, 257/E21.387, 257/E29.189, 257/E33.028, 438/312

<a href="#">Full</a>	<a href="#">Title</a>	<a href="#">Citation</a>	<a href="#">Front</a>	<a href="#">Review</a>	<a href="#">Classification</a>	<a href="#">Date</a>	<a href="#">Reference</a>	<a href="#">Sequence</a>	<a href="#">Attachments</a>	<a href="#">Claims</a>	<a href="#">RIMIC</a>	<a href="#">Drawn</a>
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 4. Document ID: US 6636541 B1

L2: Entry 4 of 61

File: USPT

Oct 21, 2003

US-PAT-NO: 6636541

DOCUMENT-IDENTIFIER: US 6636541 B1

TITLE: Semiconductor laser device

DATE-ISSUED: October 21, 2003

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Nakayama; Hisashi	Osaka			JP
Kito; Masahiro	Osaka			JP
Ishino; Masato	Osaka			JP
Matsui; Yasushi	Osaka			JP

US-CL-CURRENT: 372/45; 372/43, 372/46, 372/50

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 5. Document ID: US 6636118 B1

L2: Entry 5 of 61

File: USPT

Oct 21, 2003

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e ef b e

US-PAT-NO: 6636118

DOCUMENT-IDENTIFIER: US 6636118 B1

TITLE: High-frequency power amplification module and radio communication device

DATE-ISSUED: October 21, 2003

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Kusano; Cyushiro	Niiza			JP
Hase; Eiichi	Iruma			JP
Ono; Hideyuki	Kokubunji			JP
Kagaya; Osamu	Tokyo			JP
Umemoto; Yasunari	Sayama			JP
Fujita; Takahiro	Fussa			JP
Yamashita; Kiichi	Tsukui			JP

US-CL-CURRENT: 330/298, 327/314, 327/325, 330/207P, 330/307

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 6. Document ID: US 6611008 B2

L2: Entry 6 of 61

File: USPT

Aug 26, 2003

US-PAT-NO: 6611008

DOCUMENT-IDENTIFIER: US 6611008 B2

TITLE: Heterojunction bipolar transistor capable of restraining the conductivity modulation of the ballast layer

DATE-ISSUED: August 26, 2003

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Twynam; John Kevin	Tenri			JP
Ishimaru; Yoshiteru	Tenri			JP

US-CL-CURRENT: 257/197, 257/198, 257/201, 438/235, 438/309, 438/312

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Searches](#) | [Assignments](#) | [Claims](#) | [RMD](#) | [Drawn D](#)

 7. Document ID: US 6594293 B1

L2: Entry 7 of 61

File: USPT

Jul 15, 2003

US-PAT-NO: 6594293

DOCUMENT-IDENTIFIER: US 6594293 B1

TITLE: Relaxed In<sub>x</sub>Ga<sub>1-x</sub>As layers integrated with Si

h e b b g e e e f e ef b e

DATE-ISSUED: July 15, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Bulsara; Mayank	Cambridge	MA		
Fitzgerald; Eugene A.	Windham	NH		

US-CL-CURRENT: 372/43; 257/E21.113, 257/E21.127, 372/45

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8. Document ID: US 6590917 B2

L2: Entry 8 of 61

File: USPT

Jul 8, 2003

US-PAT-NO: 6590917

DOCUMENT-IDENTIFIER: US 6590917 B2

TITLE: Surface emitting laser and surface emitting laser array

DATE-ISSUED: July 8, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Nakayama; Hideo	Nakai-machi			JP
Sakamoto; Akira	Nakai-machi			JP
Nakamura; Takeshi	Nakai-machi			JP
Koyama; Fumio	Yokohama			JP

US-CL-CURRENT: 372/45

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9. Document ID: US 6589335 B2

L2: Entry 9 of 61

File: USPT

Jul 8, 2003

US-PAT-NO: 6589335

DOCUMENT-IDENTIFIER: US 6589335 B2

TITLE: Relaxed InxGal-xAs layers integrated with Si

DATE-ISSUED: July 8, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Bulsara; Mayank	Cambridge	MA		
Fitzgerald; Eugene A.	Windham	NH		

US-CL-CURRENT: 117/89; 117/1, 117/105, 257/E21.113, 257/E21.127

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10. Document ID: US 6576503 B2

L2: Entry 10 of 61

File: USPT

Jun 10, 2003

US-PAT-NO: 6576503

DOCUMENT-IDENTIFIER: US 6576503 B2

TITLE: Laser diodes and manufacturing methods

DATE-ISSUED: June 10, 2003

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Kikawa; Takeshi	Kodaira			JP
Goto; Shigeo	Tokorozawa			JP

US-CL-CURRENT: 438/152; 438/158, 438/166, 438/184

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequence	Abstracts	Claims	RWIC	Draft D
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